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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/626,078	07/26/2000	Do-hyoung Kim	Q59997	8066

7590

03/14/2003

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EXAMINER

LEE, CHRISTOPHER E

ART UNIT

PAPER NUMBER

2189

DATE MAILED: 03/14/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/626,078

Applicant(s)

KIM ET AL.

Examiner

Christopher E. Lee

Art Unit

2189

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2,5 and 9 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1,2,5 and 9 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 July 2000 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Receipt Acknowledgement

1. Receipt is acknowledged of the Preliminary Amendment filed on 28th of August, 2001. Claims 1 and 5 have been amended; claims 3, 4 and 6-8 have been canceled; and claim 9 has been newly added. Currently, claims 1, 2, 5 and 9 are pending in this application.

Drawings

2. Figure 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

3. The disclosure is objected to because of the following informalities: In the Application, on page 2, lines 18, substitute the term "first DTV 14" by --first DTV 12--. Appropriate correction is required.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

a. The claim 1 recites the limitation "the digital interface standard" in line 4, on the Preliminary Amendment page 4, filed on 28th of August, 2001 (hereinafter Amendment). There is insufficient antecedent basis for this limitation in the claim. It could be considered as --a digital interface standard--because it has not been clearly defined in the claims.

- b. The claim 1 recites the limitation "the external device" in line 5, on the Amendment page 4. There is insufficient antecedent basis for this limitation in the claim. It could be considered as --an external device--because it has not been clearly defined in the claims.
- c. The claim 1 recites the limitation "the right" in line 10, on the Amendment page 4. There is insufficient antecedent basis for this limitation in the claim. It could be considered as --a right--because it has not been clearly defined in the claims.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

8. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant Admitted Prior Art [hereinafter AAPA] in view of Isley, Jr. et al [US 5,930,295 A; hereinafter Isley] and IBM Technical Disclosure Bulletin ["System Logon", TDB-ACC-NO: NN73053847, Vol. 15, Issue 12, pages 3847-3848, Published May 1, 1973; hereinafter IBM_TDB].

Referring to claim 1, AAPA discloses a connection managing method (See Fig. 1) of a digital interface (i.e., IEEE-1394 BUS) for performing a connection management for a plurality of devices (i.e.,

managing first DTV 12, second DTV and DVCR 10 in Fig. 1) connected by a digital interface (i.e., IEEE-1394 BUS).

AAPA does not expressly teach said plurality of devices including operation modes having a normal mode for performing a usual operation prescribed in a digital interface standard and a private mode for performing an operation which selectively controls an external device.

Isley discloses a mobile terminal apparatus, wherein a plurality of devices (i.e., mobile terminals in Fig. 1) including operation modes (i.e., Net Radio service operating modes; See col. 3, lines 14-20) having a normal mode (i.e., NORMAL mode) for performing a usual operation prescribed in a digital interface standard (See col. 3, lines 21-23; i.e., wherein in fact that selecting a specific channel on which to tune and thereafter performs push-to-talk operations implies that said normal mode performs a usual operation (i.e., push-to-talk operation) prescribed in a digital interface standard, like a Net Radio Service) and a private mode (i.e., PRIVATE mode) for performing an operation (i.e., MT user selecting operation) which selectively controls (i.e., selectively creates a net) an external device (i.e., other user MT, which desires to set up a call with; See col. 3, lines 23-28).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have included said concept of operation mode, as disclosed by Isley, in said connection managing method, as disclosed by AAPA, for the advantage of providing a selective operation mode, such as private operation mode (i.e., private MT operation) for using said devices with privacy (i.e., for calling in a private net), or a regular operation (i.e., normal mode). Refer to Isley, col. 3, lines 14-46.

AAPA, as modified by Isley, does not expressly teach said method of performing a connection management for said plurality of devices connected by said digital interface.

IBM_TDB discloses a system logon, wherein a method comprising the steps of: (a) establishing a private mode (i.e., system access and connection; See the first paragraph in the disclosure) as an operation mode (i.e., system operation) in a first arbitrary device (i.e., central (host) system in Fig. 2) in response to a

user's command (i.e., user's request input at a remote user terminal in Fig. 2); (b) said first device (i.e., central (host) system) identifying devices (i.e., identifying remote user terminals via QID table; See the third paragraph) having a right (i.e., user authorization) to access related registers (i.e., access system resources) to store in itself information relating to said identified devices (in fact, User Authorization Data Set having information about access right of system resources, which is well known to one of ordinary skill in the art of centralized computer system); (c) said first device (i.e., central (host) system) determining (i.e., decision block "Logon Process" in Fig. 1) whether there is a request (i.e., block "Find User" in Fig. 3 whether another user's request input is at a remote user terminal) for access to said related registers (i.e., access said central resources) by a third-party device (i.e., a remote terminal from another user); (d) determining (i.e., decision block "Found" in Fig. 3) whether said third-party device (i.e., said remote terminal from another user) is included in said previously stored devices (i.e., QID table and User Authorization Data Set in Fig. 3) if there is a request (i.e., Request Logon in Fig. 3); (e) said first device (i.e., central (host) system) accepting said request of said third-party device (i.e., decision block "Found", then Yes in Fig. 3) if said third-party device is determined to be included in said devices stored in then step (d) (i.e., said third-party terminal user is included in QID table; See the third and fourth paragraphs); and (f) said first device (i.e., central (host) system) returning an error code (i.e., decision block "Found", then No, and returning "Invalid Logon" in Fig. 3) to said third-party device (i.e., said third-party terminal user), which indicates that said first device cannot accept said request, if said third-party device is not determined to be included in said devices stored in the step (d), (i.e., in fact, any users cannot be logged on to said central (host) system so long as said QID table is not updated for said users; See the fifth and sixth paragraphs).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have included said logon procedure, as disclosed by IBM_TDB, in said connection managing method, as disclosed by AAPA, as modified by Isley, for the advantage of providing a security of

prohibiting access to said devices without authorization, which is well known to one of the ordinary skill in the art of computer security at the time the invention was made.

9. Claims 2, 5 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over AAPA in view of Isley [US 5,930,295 A] and IBM_TDB as applied to claim 1 above, and further in view of Thorne, III et al. [US 5,805,165 A; hereinafter Thorne].

Referring to claim 2, AAPA, as modified by Isley and IBM_TDB, discloses all the limitations of the claim 2 except that does not teach (a-1) said user sending a request indicating that a bit stream output from said first device and displayed on a second device intends to be managed privately to said second device; and (a-2) said second device using a specific command to relay said request to said first device. Thorne discloses a method of selecting a displayed control item, wherein (a-1) a user sending a request (i.e., user requests) indicating that a bit stream output (i.e., user requests a downloading of certain program modules) from a first device (i.e., headend system 12 of Fig. 1; See col. 10, lines 64-67) and displayed on a second device (i.e., output device 50 of Fig. 1; See col. 11, lines 10-22) intends to be managed privately (i.e., user privately selected program and retrieving the selected programming information) to said second device (i.e., set-top terminal 48 of Fig. 1); and (a-2) said second device (i.e., set-top terminal) using a specific command (i.e., a command requesting programming information) to relay (i.e., via distribution network 16 of Fig. 1) said request to said first device (i.e., headend system). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have included said user requesting procedure, as disclosed by Thorne, in said connection managing method, as disclosed by AAPA, as modified by Isley and IBM_TDB, for the advantage of providing means for displaying of said bit stream output (i.e., downloaded program) according to said user request (i.e., a control item) on a display screen (See Thorne, col. 3, line 45).

Referring to claim 5, AAPA, as modified by Isley, IBM_TDB and Thorne, discloses said establishment of said operation mode is made on said basis of a subunit (i.e., a mobile terminal; Isley),

and in the step (a) a private mode is established in said subunit (i.e., a mobile terminal; Isley) (i.e., MT user (viz., subunit) selectively establishes said private mode; See Isley, col. 23-28).

Referring to claim 9, AAPA teaches said digital interface conforms to the IEEE 1394 standard (See IEEE-1394 BUS in Fig. 1).

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Lee et al. [US 6,049,539 A] disclose access system and method for providing interactive access to an information source through a networked distribution system.

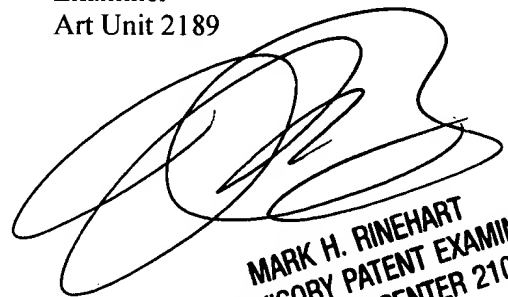
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher E. Lee whose telephone number is 703-305-5950. The examiner can normally be reached on 9:00am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on 703-305-4815. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-7239 for regular communications and 703-746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Christopher E. Lee
Examiner
Art Unit 2189

CEL/ *CEL*
March 10, 2003


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